

1R - 426-99

REPORTS

DATE:

9-13-10

L. Peter Galusky, Jr. Ph.D., P.G.

RECEIVED OCD

Texerra

75 Wuthering Hts Drive Colorado Springs, CO 80921
Tel: 917-339-6791 E-mail: lpg@texerra.com

September 13th, 2010

Mr. Edward Hansen
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

Re: Notification of Groundwater Impact
Rice Operating Company – BD SWD System
BD O-23 Junction Box (Vent) UL O, Sect 23, Township 21S, Range 37E
NMOCD Case Number IR426-99

Sent via E-mail and U.S. Mail, Return Receipt No. 7007 2560 0001 9712

Mr. Hansen:

Please be advised that groundwater samples taken as prescribed in the Investigation and Characterization Plan (ICP) for Rice Operating Company's BD O-23 Vent project (Figure 1) indicate elevated levels of chlorides. Groundwater samples taken from a near-source down-gradient monitor well tested 6,900 ppm and 7,700 ppm Cl- on April 20th and July 26th, respectively (see attached laboratory data). Dissolved hydrocarbons (as BTEX) were not detected in either sampling event.

ROC will install a monitor well up-gradient of the site and to sample this for chlorides to determine if the elevated levels observed are due to historical, up-gradient impacts or if they have been caused or exacerbated by past operation of this junction box. Once we have this data we will compile groundwater and soil bore analysis data and prepare and submit an ICP report. A Corrective Action Plan will also be submitted if our findings warrant this.

ROC is the service provider (agent) for the BD SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis. Please call either myself or Hack Conder of Rice Operating Company if you have any questions or wish to discuss this matter.

Thank you for your consideration.

Sincerely,



L. Peter Galusky, Jr. Ph.D., P.G.

Copy: Rice Operating Company

Copy: Rice Operating Company

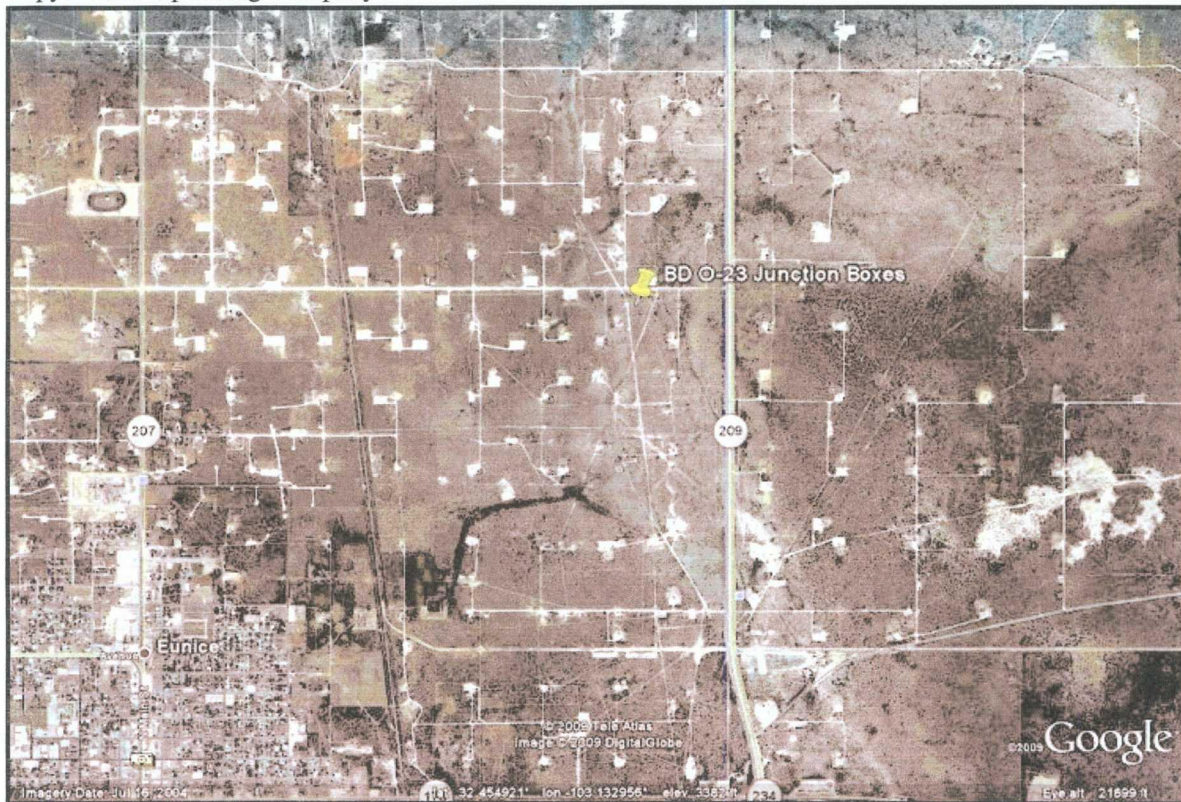


Figure 1 – BD O-23 location. The general topographic gradient and presumed water table



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 2, 2010

Hack Conder
Rice Operating Company
112 West Taylor
Hobbs, NM 88240

Re: BD O-23 Vent

Enclosed are the results of analyses for sample number H20414, received by the laboratory on 07/26/10 at 1:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

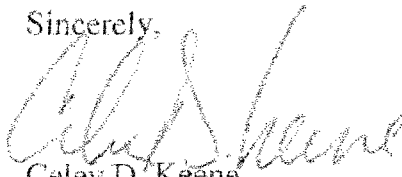
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,


Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
112 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

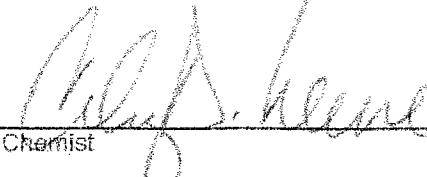
Receiving Date: 07/26/10
Reporting Date: 07/28/10
Project Number: NOT GIVEN
Project Name: BD O-23 VENT
Project Location: T21S-R37E-SEC23 O~ LEA CO., NM

Sampling Date: 07/26/10
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: JH
Analyzed By: ZL


LAB NUMBE SAMPLE ID				
	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE	07/28/10	07/28/10	07/28/10	07/28/10
H20414-1 MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
Quality Control	0.010	0.009	0.009	0.027
True Value QC	0.010	0.010	0.010	0.030
% Recovery	100	90.0	90.0	90.0
Relative Percent Difference	3.6	9.5	9.5	5.6

METHOD: EPA SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.



Chemist



Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
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HOBBS, NM 88240
FAX TO: (575) 397-1471

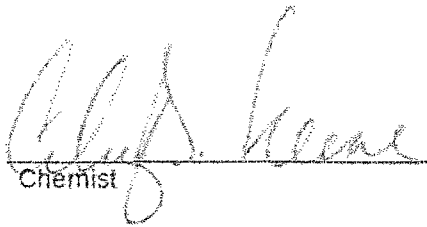
Receiving Date: 07/26/10
Reporting Date: 07/29/10
Project Number: NOT GIVEN
Project Name: BD O-23 VENT
Project Location: T21S R37E SEC23 O ~ LEA COUNTY, NM

Sampling Date: 07/26/10
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	SO ₄ (mg/L)	TDS (mg/L)
Analysis Date:		07/27/10	07/29/10	07/27/10
H20414-1	MONITOR WELL #1	7,700	394	12,500
Quality Control		510	39.6	NR
True Value QC		500	40.0	NR
% Recovery		102	99.1	NR
Relative Percent Difference		3.8	2.5	0.9

METHOD: Standard Methods, EPA	4500-Cl B	375.4	160.1
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Not accredited for Chloride, Sulfate and TDS.


Chemist


Date

H20414 RICE

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CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 29, 2010

Hack Conder
Rice Operating Company
112 West Taylor
Hobbs, NM 88240

Re: BD O-23 Vent

Enclosed are the results of analyses for sample number H19746, received by the laboratory on 04/23/10 at 2:00 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,


Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
112 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 04/23/10
Reporting Date: 04/27/10
Project Number: NOT GIVEN
Project Name: BD O-23 VENT
Project Location: T21S-R37E-SEC23 O~ LEA CO., NM

Sampling Date: 04/20/10
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: JH
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		04/26/10	04/26/10	04/26/10	04/26/10
H19746-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
Quality Control		0.050	0.051	0.051	0.152
True Value QC		0.050	0.050	0.050	0.150
% Recovery		100	102	102	101
Relative Percent Difference		12.5	12.8	13.0	14.4

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.

Chemist

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. No claim for consequential damages or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the analytical service. In no event shall Cardinal be liable for accidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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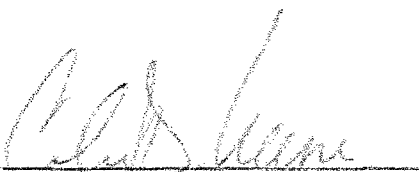
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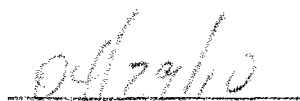
Receiving Date: 04/23/10
Reporting Date: 04/28/10
Project Number: NOT GIVEN
Project Name: BD O-23 VENT
Project Location: T21S R37E SEC23 O ~ LEA COUNTY, NM

Sampling Date: 04/20/10
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: JH
Analyzed By: SJ/HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	SO ₄ (mg/L)	TDS (mg/L)
Analysis Date:		04/28/10	04/28/10	04/27/10
H19746-1	MONITOR WELL #1	6,900	505	12,500
Quality Control		500	44.6	NR
True Value QC		500	40.0	NR
% Recovery		100	112	NR
Relative Percent Difference		2.0	2.0	3.7

METHOD: Standard Methods, EPA	4500-Cl ⁻ B	375.4	160.1
Not accredited for Chloride, Sulfate and TDS.			


Chemist


Date

H19746 RICE

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Cardinal Laboratories, Inc. 101 East Merland - Hobbs, New Mexico 88240 Tel (575) 393-2323 Fax (575) 393-2476		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # _____	
Company Name: RICE Operating Company Project Manager: Hack Conder Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone #: (575) 393-9174 Fax #: (575) 397-1471		ANALYSIS REQUEST (Circle or Specify Method No.)	
Project Name: BD O-23 Vent Project Location: T21S R37E Sec23 O ~ Lea County New Mexico Sampler Signature: <i>[Signature]</i> Rozanne Johnson (575) 397-1471 rozanne@valornet.com		Turn Around Time ~ 24 Hours	
FIELD CODE LAB # _____ (LAB USE ONLY) Monitor Well #1		TOLP Metals Ag As Ba Cd Cr Pb Se Hg TOLP Volatiles TOLP Semi Volatiles TOLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi Vol. 8270C/625 PCBs 8082/608 Pesticides 8081A/608 BOD, TSS, PH Moisture Content Anions (Cl, SO ₄ , CO ₃ , HCO ₃) Cations (Ca, Mg, Na, K) Sulfates (SO ₄) Total Dissolved Solids Chlorides	
		TPH 418, 1/1X1005 / TX1005 Extended (C35) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 BTEX 8021B/602 MTBE 8021B/602	
Date: _____ Time: _____ Relinquished by: <i>[Signature]</i> Rozanne Johnson 4-23-10 13:59 Relinquished by: _____ Date: _____ Time: _____		Date: _____ Time: _____ Received by: _____ Received By: (Laboratory Staff) _____ Date: _____ Time: _____ Sample Condition: <i>[Handwritten: Good]</i> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		CHECKED BY: <i>[Signature]</i> (Initials)	
REMARKS:		Em Email Results to hconder@riceswd.com hconder@riceswd.com rozanne@valornet.com	

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